

## Compound Interest

## To Find Compound Interest:

Use  $\underline{I = prt}$  and repeat for the  $\underline{number}$   $\underline{of}$   $\underline{terms}$ 

Find the total amount in the account after 2 years if 300 is invested at 12% compounded annually.

What is the total amount of money after 3 years in an account where \$ 5,000 is invested at an interest rate of 5% compounded annually?

Find the total amount in the account if interest is compounded each year.

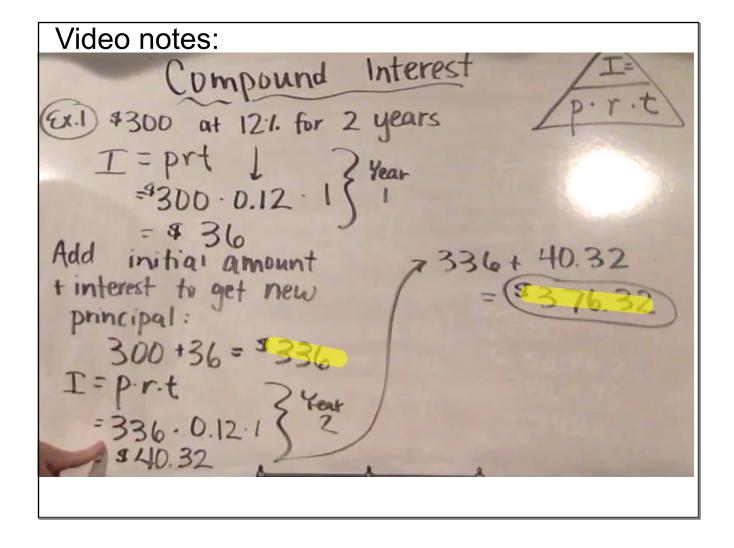
\$14,750 at 5% for two years

Example 1:

Example 2:

Example 3:

I, prt =14,750.05.1 = 737.50 New balance = 14,750+737.50= **9**15, 487.50 I2=15,487.50.0.05.1 7.50+774.38=



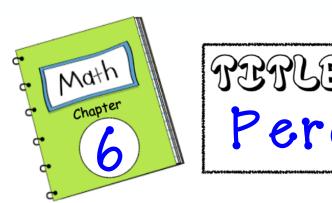
Compound Interest

$$\{x.2\} \le 5,000 \text{ at } 51. \text{ for } 3 \text{ years}$$
 $I = p \cdot r \cdot t$ 
 $= $5000 \cdot 0.05 \cdot 1$ 

Year

 $= $250$ 

New balance  $5000 + 250$ 
 $I = p \cdot r \cdot t$ 
 $= $250 \cdot 0.05 \cdot 1$ 
 $= 5250 \cdot$ 



## rerus. Percents

Date	Lesson	Topic/Assignment
1-4	1	Using Percent Proportion Video Notes
1-5	I	HOMEWORK: HW Prac WS
1-5	1	CLASSWORK: Pg253 WS
1-6	2	Finding Percent Mentally Video Notes
1-7	2	HOMEWORK: Skills WS
1-7	2	GLASSWORK: Extra Practice WS
1-8	2	10% Rule Video Notes
1-11	3	Using Percent Equation Video Notes
1-12	3	HOMEWORK: Magnolia Riddle WS
1-12	3	CLASSWORK: Practice WS 6 Boxes
1-14		CLASSWORK: Reteach Packet
1-19	5	Discount and Markup Video Notes
1-20	5	CLASSWORK: Pg277 WS
1-25	5	GLASSWORK: Polka Dot Task Gards
1-27	6	Simple Interest Video Notes
1-28	6	HOMEWORK: Pg283 #1-4 and #10-15
1-29	6	HOMEWORK: HW Practice WS
2-1	6	CLASSWORK: Simple Interest Task Cards
2-2	6	Compound Interest Video Notes
2-3	6	HOMEWORK: Pg283 #19-20
2-3	6	CLASSWORK: Pg283 #21-22
2-4	ALL	HOMEWORK: Study Guide



HOMEWORK	Name _							
E Land	Unit	_ Lesson _	Due Date					
Show your work on the lines UNDER THESE PROBLEMS. You will not get credit for doing the homework if you do not show work. LABEL each problem and go down the left margin. Use the back if necessary.								
Find the total am compounded and			arest cent if the interest is					
<b>19.</b> \$595 at 4.75% f	or 3 years		<b>20.</b> \$840 at 7% for 4 years					
*Calculators OK*								
<pre>     I = prt</pre>	• 0.047	15.1						
New balance	8.26 2= \$							
$T_2 = 62^{\circ}$	3,26.0.0 .60	1475 • 1						
New balance=	623,26°	+ 29.60						
Iz = 6	52.86 · 0.1	0475 •						
New balance	31.01 = 652.86	+31.01						
	=4(683.8	D						